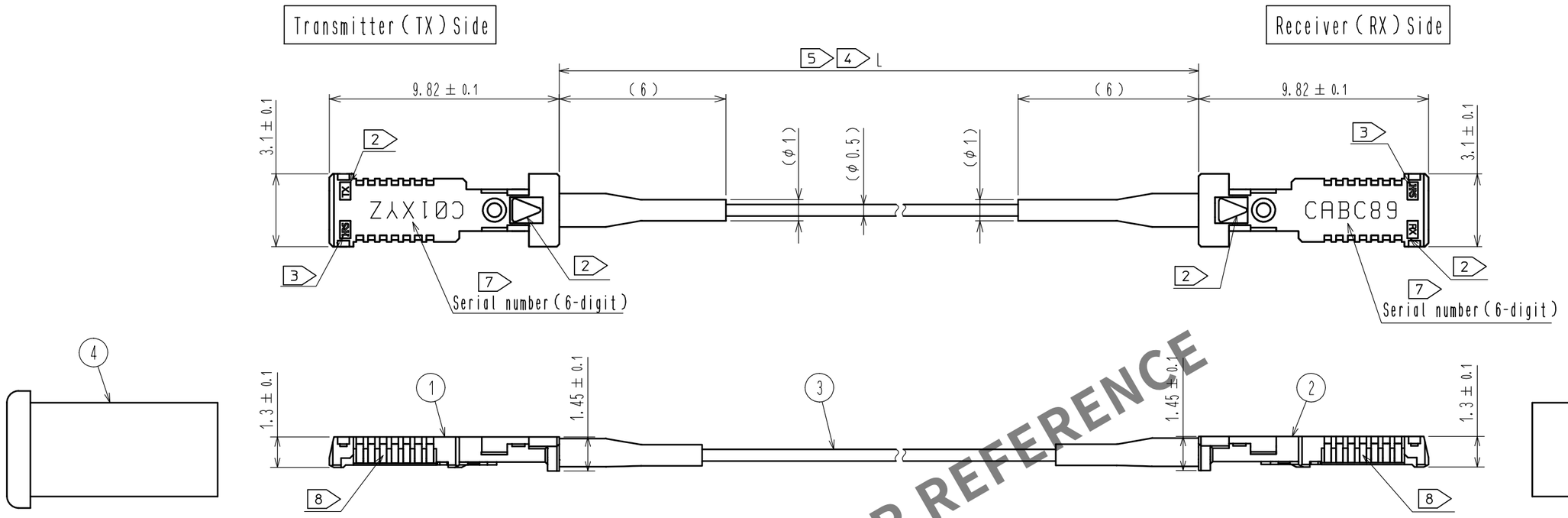
Mar.1.2024 Copyright 2024 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.




HRS DRAWING FOR REFERENCE

Table 1 Parts list

| No | Parts name | Details | Note |
|---|---|---|---|
| ① | Transmitter plug ( TX ) | Housing : LCP ( White )<br>Contact : Phosphor bronze ( Au plating )<br>Plate : Phosphor bronze ( Ni plating )<br>VCSEL : GaAs<br>VCSEL driver : Si (CMOS)<br>Bonding wire : Au<br>Sealing resin : Epoxy<br>Heat shrinl tubing : Polyolefin ( Black ) | Suitable receptacle connector BF4-TX-14DS-0.5V |
| ② | Receiver plug ( RX ) | Housing : LCP ( White )<br>Contact : Phospher bronze ( Au plating )<br>Plate : Phosphor bronze ( Ni plating )<br>PD : GaAs<br>TIA/LA : Si(CMOS)<br>Bonding wire : Au<br>Sealing resin : Epoxy<br>Heat shrink tubing : Polyolefin ( Black ) | Suitable receptacle connector BF4-RX-14DS-0.5V |
| ③ | Optical fiber | Fiber : Silica glass<br>Coating : 6 UV curable resin/Thermoplastic resin | Outer dia. : 0.5mm<br>Fiber type : GI 50/80<br>Color : Red |
| ④ | ESD cap | Polyester elastomer (Black, Antistatic) | — |

5 Table2 Cable length vs tolerance

| Cable length 'L' | Tolerance | Note |
|---|---|---|
| L < 1m | — | Please see the other drawing. |
| 1m ≦ L < 2m | ±5% of cable length 'L' | Packed in antistatic poly bag |
| 2m < L ≦ 5m | | Winding on the spool (dia.66mm) |
| 5m < L | ±3% of cable length 'L' | |

Note 1 Please see design note ETAD-K0671 for more information about specifications.
2 This is an identification mark for TX side and RX side.
3 Manufacturer's mark.
4 Dimention 'L' means optical fiber cable length and '**' in the part number in the same value with 'L'. (Unit : m)
5 Table 2 shows the tolerance of optical fiber cable length. Please inquire to Hirose sales staff about the request of tolerance.
6 The optical fiber coating contains less than 1000ppm dibutyltin compounds (DBT) as an intentionally-doped catalyser. (Comply with Reach reguration)
7 6-digit serial number shall be marked around directed area by laser marking.
8 There may be the sliding trace around the contact points, because of the test process in HRS by mating with inspection connector. (There is no bad effect for the performance)

| UNITS | SCALE | | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|---|---|
| mm | 5 : 1 | △0 | | | | | |

HIROSE ELECTRIC CO., LTD.

| | | |
|---|---|---|
| APPROVED | MT. SHIBUTANI | 15. 04. 21 |
| CHECKED | OM. MIYAMOTO | 15. 04. 21 |
| DESIGNED | YA. SANO | 15. 04. 21 |
| DRAWN | YA. SANO | 15. 04. 21 |

| | |
|---|---|
| DRAWING NO. | EDC-179522-00-00 |
| PART NO. | BF4MC-6GTXRX-B1-**M |
| CODE NO. | △0 1/1 |